**Week- 8: Files**

1. **Write a Python code to merge two given file contents into a third file.**

**Program:**

file1=open("t1.txt","w",encoding="utf-8")

file2=open("t2.txt","w")

file1.write("hello")

file2.write("world!")

file1.close()

file2.close()

file1=open("t1.txt","r")

data1=file1.read()

file2=open("t2.txt","r")

data2=file2.read()

file1.close()

file2.close()

file3=open("t3.txt","w")

file3.write(data1+" "+data2)

file3.close()

file3=open("t3.txt","r")

data=file3.read()

file3.close()

**Output:**

t1.txt:

hello

t2.txt:

world!

t3.txt:

hello world!

**2. Write a Python code to open a given file and construct a function to check for given words present in it and display on found.**

**Program:**

file=open("t3.txt","r")

data=file.read() #t3.txt: hello world!

file.close()

def check\_word(data,word):

words=data.split(" ")

for i in words:

if word==i:

print("word found")

break

else:

print("not found")

word=input("Enter word to be searched:")

check\_word(data,word)

**Output:**

Enter word to be searched:hello

Word found

**3. Write a Python code to Read text from a text file, find the word with most number of occurrences.**

**Program:**

count=0

max\_count=0

words=[]

file=open("text.txt","r") # apple banana apple mango banana mango orange mango

for line in file:

string=line.lower().replace(',','').replace('.','').split(" ")

for s in string:

words.append(s)

for i in range (0,len(words)):

count=1

for j in range (i+1,len(words)):

if words[i]==words[j]:

count=count+1

if count>max\_count:

max\_count=count

word=words[i]

print("Most repeated word:",word)

**output:**

Most repeated word:mango

**4. Write a function that reads a file file1 and displays the number of words, number of vowels, blank spaces, lower case letters and uppercase letters.**

**Program:**

file1 = open("text.txt", "r")

data=file1.read() #hello world

file1.close()

def display():

vowel= 0

space=0

con=0

lower=0

upper=0

vowels = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U']

words=data.split()

print("Total words:",len(words))

for letter in data:

if letter in vowels:

vowel = vowel+1

elif letter==" ":

space=space+1

else:

con=con+1

if letter.islower():

lower=lower+1

if letter.isupper():

upper=upper+1

print("Total Vowels:")

print(vowel)

print("Total con:")

print(con)

print("Total lower:")

print(lower)

print("Total upper:")

print(upper)

print("Total space:")

print(space)

diaplay()

**optput:**

Total words: 2

Total Vowels:

3

Total con:

7

Total lower:

10

Total upper:

0

Total space:

1

**5. Write a program to print each line of a file in reverse order.**

**Program:**

file = open ("text.txt","r")

r=file.read()

word=r.split()

print(word)

l1 =[]

for i in word:

l1.append(i[::-1])

print (l1)

**Output:**

['hello', 'world']

['olleh', 'dlrow']